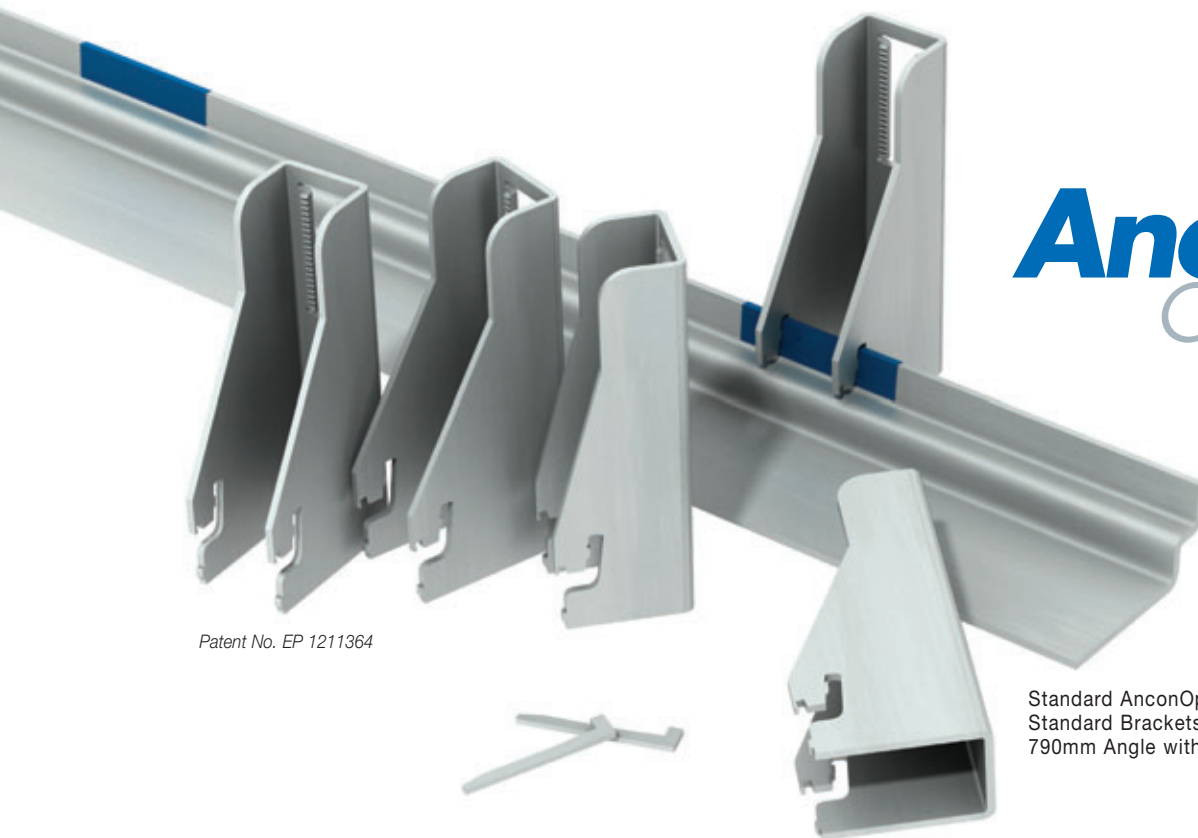


# Masonry Support, Windposts & Lintels



Patent No. EP 1211364

**Ancon**  
Optima®

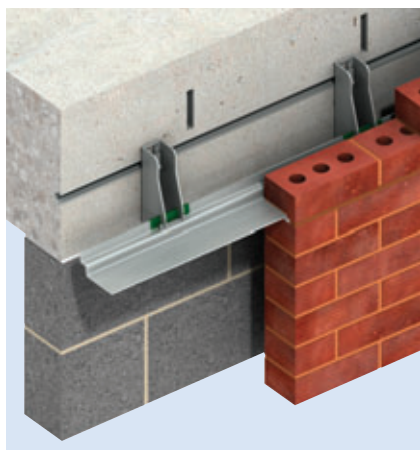
Standard AnconOptima 14 System.  
Standard Brackets, Locking Wedges and a  
790mm Angle with Blue Fixing Zones

## ANCONOPTIMA

The Industry's growing emphasis on speed of construction, and the inability of welded bracket support systems to provide sufficient adjustment on site, led Ancon to develop AnconOptima.

AnconOptima is a bracket angle masonry support system. Unlike welded systems, the brackets and angles are supplied as separate components. This provides greater flexibility in the final fixing position of the brackets and makes the system easier to handle and move around site.

Systems comprise laser-cut brackets, two-step angles with pre-marked fixing zones and locking wedges to ensure the correct contact is achieved between the two.



AnconOptima 12 System

## Standard Systems

Standard systems, referenced AnconOptima 10, 12 and 14, support masonry loads of up to 10kN, 12kN and 14kN respectively. All components are available from stock.

Brackets are available to suit cavities from 60mm to 150mm and are stocked in 5mm increments. Depending on the fixing type, brackets can be changed on site for one of a different depth to allow for cavity variations. Two brackets of a different depth can be used on the same angle.

The brackets used across the three standard systems are universal. The differing performance of the three systems is generated by the varying length and thickness of the angle and the fixing centres of the brackets.

Standard left-hand and right-hand corners are available.

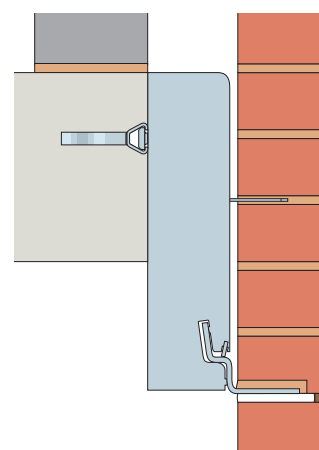
Not being specific to a particular project, unused components can be moved to another project or, for a small restocking charge, returned to Ancon.

Standard AnconOptima systems are specified from the simple load/cavity charts shown on page 11. Please note the fixing type may affect the maximum masonry load of the system specified.

## Non-Standard Systems

AnconOptima was conceived by Ancon's technical staff primarily as a standard solution for loads up to 14kN/m, however it can be designed to suit other applications. Although the components of a non-standard AnconOptima system are not available from stock and cannot be returned to Ancon for restocking, they still provide greater flexibility in the fixing position and are less cumbersome to handle on site than a comparable welded bracket system.

Typical applications of a non-standard AnconOptima system are loads up to 20kN/m or where a different angle position on the bracket is needed e.g. projecting angle.



Bespoke AnconOptima/P Support System

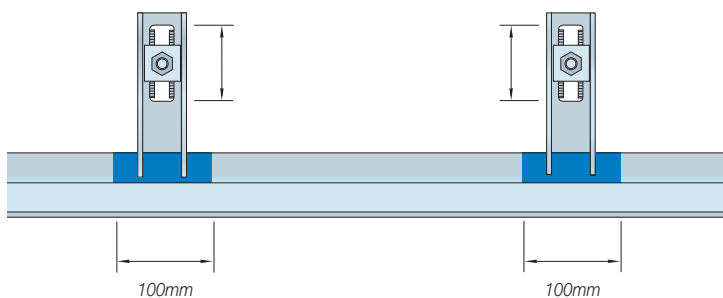
### Cavity Variations

The ability of welded bracket support systems to accommodate variations in the line of the structure is limited by the maximum thickness of shims, normally 12mm. Some additional adjustment will be possible by varying the bearing of the brickwork on the support angle but this will be very limited, particularly where pistol bricks are used.

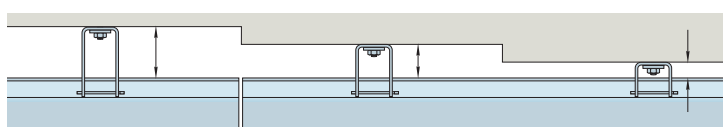
When using a standard AnconOptima system, brackets are available from stock to suit cavities from 60mm to 150mm in 5mm increments. They can be changed on site to allow for variations in the edge beam. Shims can be used for fine adjustments and should never need to be more than 4mm thick.

### Vertical Adjustment

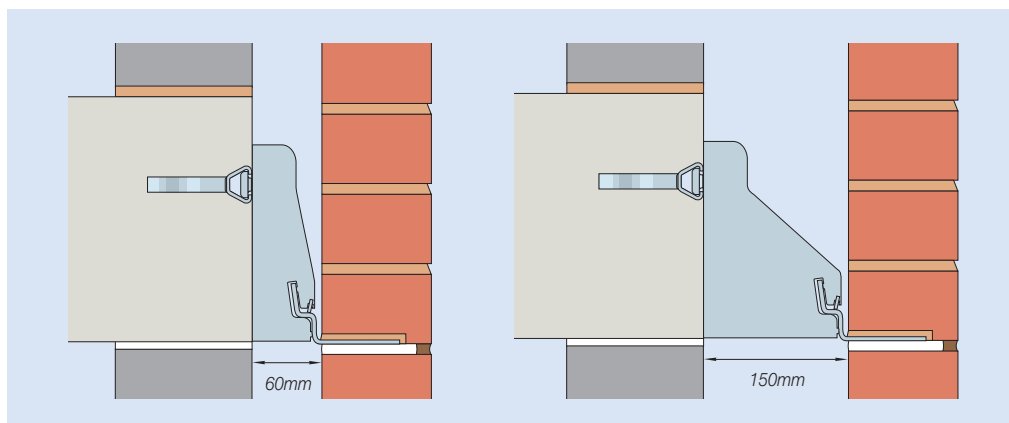
Vertical adjustment is achieved by the deep slot in the back of the bracket.



Adjustment of AnconOptima



AnconOptima accommodates variations in the line of the edge beam. Brackets of a different depth can be used on the same angle



Standard brackets are available to suit cavities from 60mm to 150mm

### Horizontal Adjustment

AnconOptima angles have a 100mm pre-marked fixing zone which provides 50mm horizontal adjustment.

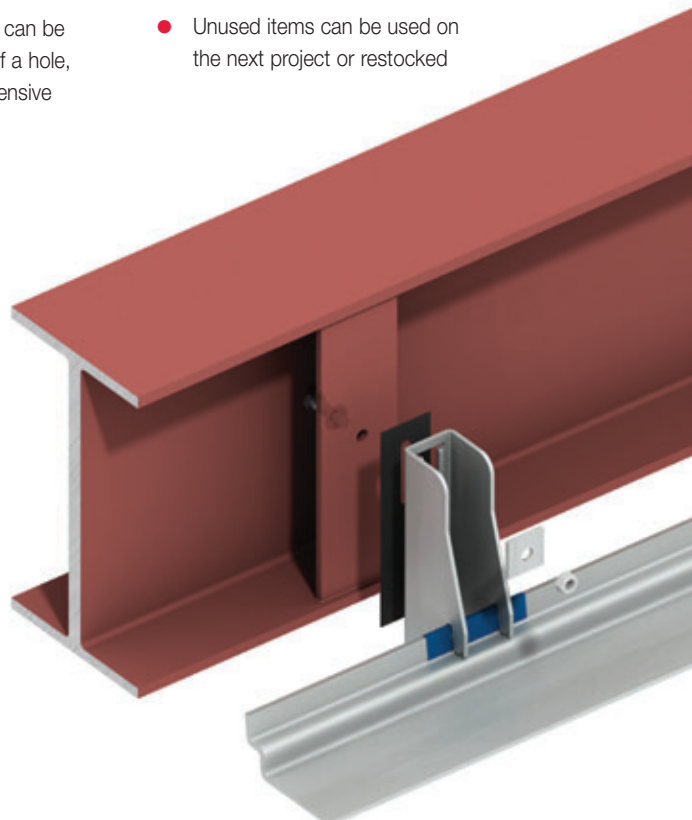
If fixing into concrete with expansion bolts, the bracket can be moved to eliminate clashes between the bolts and reinforcing bars.

Horizontal adjustment can be increased by fixing the system to an Ancon channel cast into the face of the concrete.

If fixing to steelwork, the brackets can be moved to align with the location of a hole, negating the need for a more expensive horizontal slot to be provided.

### Benefits of Standard Systems

- More adjustable than welded bracket systems
- Specified by using simple load/cavity charts
- No requirement for detailed layout drawings
- Supplied from stock
- Faster to install
- Easier to move around site
- Unused items can be used on the next project or restocked



AnconOptima fixed through hole, rather than slot, in steelwork. Adjustment provided by fixing zone on angle

# Masonry Support, Windposts & Lintels



## Setting Out of Standard Systems

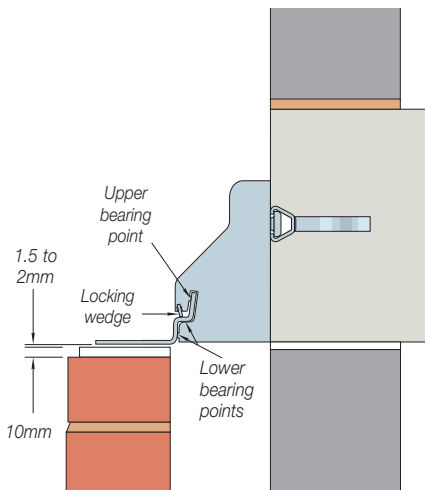
Unlike bespoke systems, there is no time-consuming setting out of individually referenced components with a standard system to a detailed layout drawing.

## Cutting on site

Standard AnconOptima systems are not designed for specific buildings and certain angles will need to be cut on site to suit the length required. Each angle section must have at least two brackets.

## Corners

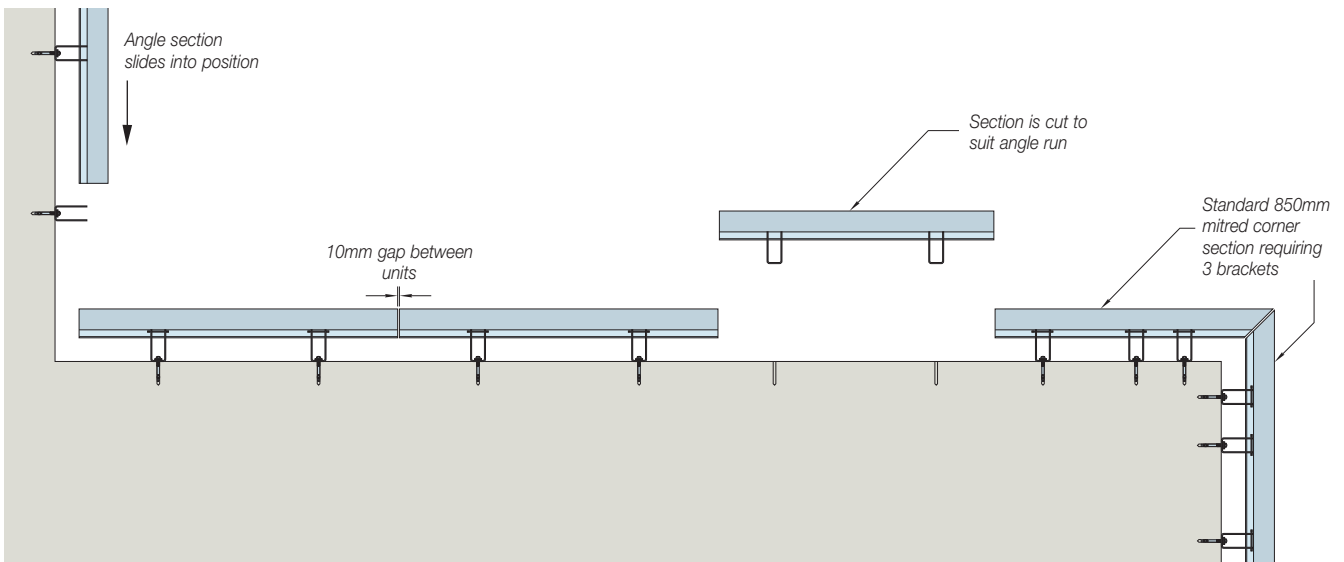
Standard left-hand and right-hand corners are available. Each corner section requires three brackets in order to achieve the required performance. These sections should never be cut.



Correct installation of AnconOptima

## Installation

Installation of AnconOptima provides significant time savings over welded support systems. The individual components are easier to move around site, often without hiring crane time. The preferred technique of installers is to level and fix two brackets and simply slide the angle into position. This reduces the time spent tightening and loosening the fixing bolts of a welded bracket system, in order to achieve a level horizontal shelf. Where space limitations prevent the angle from sliding, the brackets can be positioned on the angle and conventionally fixed; the smaller lengths of angle simplify this method of installation. When the brackets and angle are in position a locking wedge is tapped with a hammer through the notches in each bracket. These wedges ensure the correct contact is achieved between angle and brackets. A detailed installation guide is available from Ancon.



Typical AnconOptima layout

